

**IN THE CLAIMS**

Please amend the claims as follows.

1. (Currently Amended) A device comprising:

a first major exterior surface;

a second major exterior surface, at least one of the first major exterior surface and the second major exterior surface including a plurality of component mounting pads;

~~a plane metallization layer within the device;~~

a signal carrying plated through hole terminating at the at least one of the first major surface and the second major exterior surface;

a pad between the first major surface and the second major surface, the signal carrying plated through hole connected to the pad;

an antipad element substantially surrounding the pad;

a plane metallization layer within the device substantially surrounding the pad and the antipad; and

a plated through hole attached to the plane metallization layer and terminating at the at least one of the first major exterior surface and the second major exterior surface including the plurality of component mounting pads, the plated through hole attached to the plane metallization layer, and electrically isolated from the plurality of component mounting pads; and  
~~the plated through hole and one of the component mounting pads adapted to receive~~

a circuit tester for determining if a current will flow between the pad and the signal carrying via, and the plane metallization layer to test the spacing of a plane metallization layer from a signal through hole that passes through the plane metallization layer.

2. (Original) The device of claim 1 wherein the plane metallization layer is a power plane.

3. (Original) The device of claim 1 wherein the plane metallization layer is a ground plane.

4. (Original) The device of claim 1 wherein the plane metallization layer is a reference voltage plane.

5. (Previously Presented) The device of claim 1 further comprising a signal carrying plated through hole which passes through the plane metallization layer within the device and terminates at the component mounting pad at the at least one of the first major exterior surface and the second major exterior surface including the plurality of component mounting pads.
6. (Previously Presented) The device of claim 5 wherein the signal carrying plated through hole which passes through the plane metallization layer is electrically isolated from the plane metallization layer and is connected to the component mounting pad at the at least one of the first major exterior surface and the second major exterior surface including the plurality of component mounting pads.
7. (Original) The device of claim 1 wherein the device forms a printed circuit board.
8. (Original) The device of claim 1 wherein the device forms a semiconductor chip.
9. (Original) The device of claim 1 wherein the plated through hole is a via.
10. (Currently Amended) A system comprising:
- a processor;
  - a memory communicatively coupled to the processor; and
  - a device associated with at least one of the memory or the processor further including:
    - a first major exterior surface;
    - a second major exterior surface, at least one of the first major exterior surface and the second major exterior surface including a plurality of component mounting pads;
    - a signal carrying plated through hole terminating at the at least one of the first major surface and the second major exterior surface;
    - a pad between the first major surface and the second major surface, the signal carrying plated through hole connected to the pad;
    - an antipad element substantially surrounding the pad;

a plane metallization layer substantially surrounding the pad and antipad within the device; and

a plated through hole attached to the plane metallization layer and terminating at the at least one of the first major exterior surface and the second major exterior surface including the plurality of component mounting pads, the plated through hole attached to the plane metallization layer electrically isolated from the plurality of component mounting pads; and

a circuit test apparatus for testing the spacing between the plane metallization layer and the pad associated with the signal carrying through hole, the circuit test apparatus under the control of the processor.

~~————— a signal carrying through hole passing through and spaced away from the plane metallization layer, attached to a pad at one of the first major exterior surface and the second major exterior surface.~~

11. (Original) The system of claim 10 wherein the device is a printed circuit board.
12. (Original) The system of claim 10 wherein the device is a portion of a semiconductor chip.
13. (Original) The system of claim 10 wherein the plane metallization layer is a ground plane.
14. (Original) The system of claim 10 wherein the plane metallization layer is a power plane.
15. (Original) The system of claim 10 wherein the plane metallization layer is a reference voltage plane.
16. (Canceled)
17. (Original) A device comprising:
  - a first major exterior surface;
  - a second major exterior surface, at least one of the first major exterior surface and the second major exterior surface including a plurality of component mounting pads;

a first plane metallization layer within the device;

a second plane metallization layer within the device;

a first plane plated through hole attached to at least one of the first plane metallization layer and the second plane metallization layer and terminating at the at least one of the first major exterior surface and the second major exterior surface including a plurality of component mounting pads, the first plated through hole attached to the plane metallization layer electrically isolated from the plurality of component mounting pads.

18. (Original) The device of claim 17 further comprising a signal carrying plated through hole which passes through the first plane metallization layer and is electrically isolated from the first plane metallization layer, the signal carrying plated through hole passes through the second plane metallization layer and is electrically isolated from the second plane metallization layer, the signal carrying through hole connected to a component mounting pad at the at least one of the first major exterior surface and the second major exterior surface including a plurality of component mounting pads.

19. (Original) The device of claim 18 wherein the first plane plated through hole is attached to both the first plane metallization layer and the second plane metallization layer.

20. (Original) The device of claim 18 wherein the first plane plated through hole is attached to the first plane metallization layer, the device further comprising a second plane plated through hole attached to the second plane metallization layer, the second plated through hole terminating at the at least one of the first major exterior surface and the second major exterior surface including a plurality of component mounting pads, the second plated through hole attached to the second plane metallization layer electrically isolated from the plurality of component mounting pads.

21.-27. (Canceled)

